

Title (en)

BALLOON GUIDE CATHETER WITH THERMALLY EXPANDABLE MATERIAL

Title (de)

BALLONFÜHRUNGSKATHETER MIT THERMISCH EXPANDIERBAREM MATERIAL

Title (fr)

CATHÉTER DE GUIDAGE À BALLONNET COMPORTANT UN MATÉRIAU THERMIQUEMENT EXPANSIBLE

Publication

**EP 3744384 A1 20201202 (EN)**

Application

**EP 20173413 A 20200507**

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- US 201962845683 P 20190509
- US 201962845747 P 20190509
- US 201916601202 A 20191014

Abstract (en)

A balloon catheter including a heating element (120) disposed about a portion of an outer surface of a catheter shaft (100); a balloon (115) mounted about the outer surface of the catheter shaft to coincide with the heating element; and thermally expandable material (125) disposed inside the mounted balloon. The balloon catheter eliminating the need for pressurized liquid inflation media to be dispensed into/expelled from the balloon in order to inflate/deflate, respectively, the balloon.

IPC 8 full level

**A61M 25/10** (2013.01); **A61B 17/12** (2006.01); **A61M 29/02** (2006.01)

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Citation (search report)

- [XAY] US 2018333192 A1 20181122 - SLIWA JOHN W [US], et al
- [XAY] US 5800421 A 19980901 - LEMELSON JEROME H [US]
- [A] WO 2007139799 A2 20071206 - MAYO FOUNDATION [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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